WORLD INTELLECTUAL PROPERTY ORGANIZATION



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:

(11) International Publication Number:

WO 00/44914

C12N 15/63, A01K 67/027, A61K 31/713

(43) International Publication Date:

3 August 2000 (03.08.00)

(21) International Application Number:

PCT/US00/02227

(22) International Filing Date:

28 January 2000 (28.01.00)

(30) Priority Data:

60/117,635 60/175,440 28 January 1999 (28.01.99)

US 11 January 2000 (11.01.00) US

MEDICAL COLLEGE OF GEORGIA RE-(71) Applicant: SEARCH INSTITUTE, INC. [US/US]; 1120 15th Street, Room CB 1810, Augusta, GA 30912-4810 (US).

(71)(72) Applicants and Inventors: LI, Yin-Xiong [US/US]; 1011 Hickman Road, Augusta, GA 30904 (US). FARRELL, Michael, J. [US/US]; 7043 Laramie Avenue, Canoga Park, CA 91306 (US). KIRBY, Margaret, L. [US/US]; 2301 Laurel Lane, Augusta, GA 30904 (US).

(74) Agent: SANDBERG, Victoria, A.; Mueting, Raasch & Gebhardt, P.A., P.O. Box 581415, Minneapolis, MN 55458-1415 (US).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: COMPOSITION AND METHOD FOR IN VIVO AND IN VITRO ATTENUATION OF GENE EXPRESSION USING DOUBLE STRANDED RNA

(57) Abstract

Introduction of double stranded RNA into cells, cell culture, organs and tissues, and whole organisms, particularly vertebrates, specifically attenuates gene expression.

